

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

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To:

see form PCT/ISA/220

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/GB2004/002386

International filing date (day/month/year)
04.06.2004

Priority date (day/month/year)
09.06.2003

International Patent Classification (IPC) or both national classification and IPC
G02F1/13357, G09G3/34

Applicant
CAMBRIDGE FLAT PROJECTION DISPLAYS LTD

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY****Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
- a. type of material:
- ☐ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material:
- ☐ in written format
- ☐ in computer readable form
- c. time of filing/furnishing:
- ☐ contained in the international application as filed.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/002386

Box No. II Priority

1. ☒ The following document has not been furnished:

☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).

☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	3,4
	No: Claims	1,2,5-9
Inventive step (IS)	Yes: Claims	
	No: Claims	3,4
Industrial applicability (IA)	Yes: Claims	1-9
	No: Claims	

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The present application does not meet the requirements of Art. 33(1) PCT, the subject-matter of claims 1, 2, and 5-9 lacking novelty (Art. 33(2) PCT), and the subject-matter of claims 3 and 4 lacking an inventive step (Art. 33(3) PCT).
- 1.0. The following document is referred to in this communication:

D1: US 6 448 951 B1
- 1.1 The document D1 discloses (see col. 5 to col. 7, l. 3 and Figs. 1-4) a liquid crystal (LC) display comprising a flat LC panel (3) and a backlight (4), comprising a tapered slab waveguide (18) co-extensive with the LC panel (3), a light source consisting of addressable rows of LEDs (R, G, B) arranged to inject light into an edge of the waveguide (18) so that it emerges over the face of the waveguide (18), means (7, 8) for scanning the rows of LEDs synchronously with the row addressing of the LC panel, and a sheet (19) for guiding the emerging light towards the normal of the waveguide (18), thus anticipating the subject-matter of claims 1, 2, and 5-9.
- 1.2 The additional features of claims 3 and 4 concern standard means for efficiently coupling light from a source into a waveguide for a backlight, the subject-matter of said claims is therefore an obvious modification of the disclosure of D1.
2. The subject-matter of the claims is obviously industrially applicable.
3. The relevant teaching of the documents cited in the International Search Report should be acknowledged in the description (R. 5.1(a)(ii) PCT) and the independent claim should be formulated in two-part form based on the teaching of the closest prior art (R. 6.3(b) PCT).